

FIG. 1 100

202 -
204 -
206 -

Source Local Address	Protocol	Source Port	Source Address Domain	Destination Address Domain	Translated Source Port	Source Global Address
A (host X)			1	2		A12
A (host X)			1	3		A13
A (host X)			1	4		A14

FIG. 2A

208 -
210 -
212 -

Source Local Address	Protocol	Source Port	Source Address Domain	Destination Address Domain	Translated Source Port	Source Global Address
A (host Y)			2	1		A21
A (host Y)			2	3		A23
A (host Y)			2	4		A24

FIG. 2B

214 -
216 -
218 -

Source Local Address	Protocol	Source Port	Source Address Domain	Destination Address Domain	Translated Source Port	Source Global Address
A (host Z)			3	1		A31
A (host Z)			3	2		A32
A (host Z)			3	4		A34

FIG. 2C

Destination Global Address	Protocol	Translated Destination Port	Source Address Domain	Destination Address Domain	Destination Port	Destination Local Address
A12			2	1		A (host X)
A13			3	1		A (host X)
A14			4	1		A (host X)
A21			1	2		A (host Y)
A23			3	2		A (host Y)
A24			4	2		A (host Y)
A31			1	3		A (host Z)
A32			2	3		A (host Z)
A34			4	3		A (host Z)
B			0	4		B

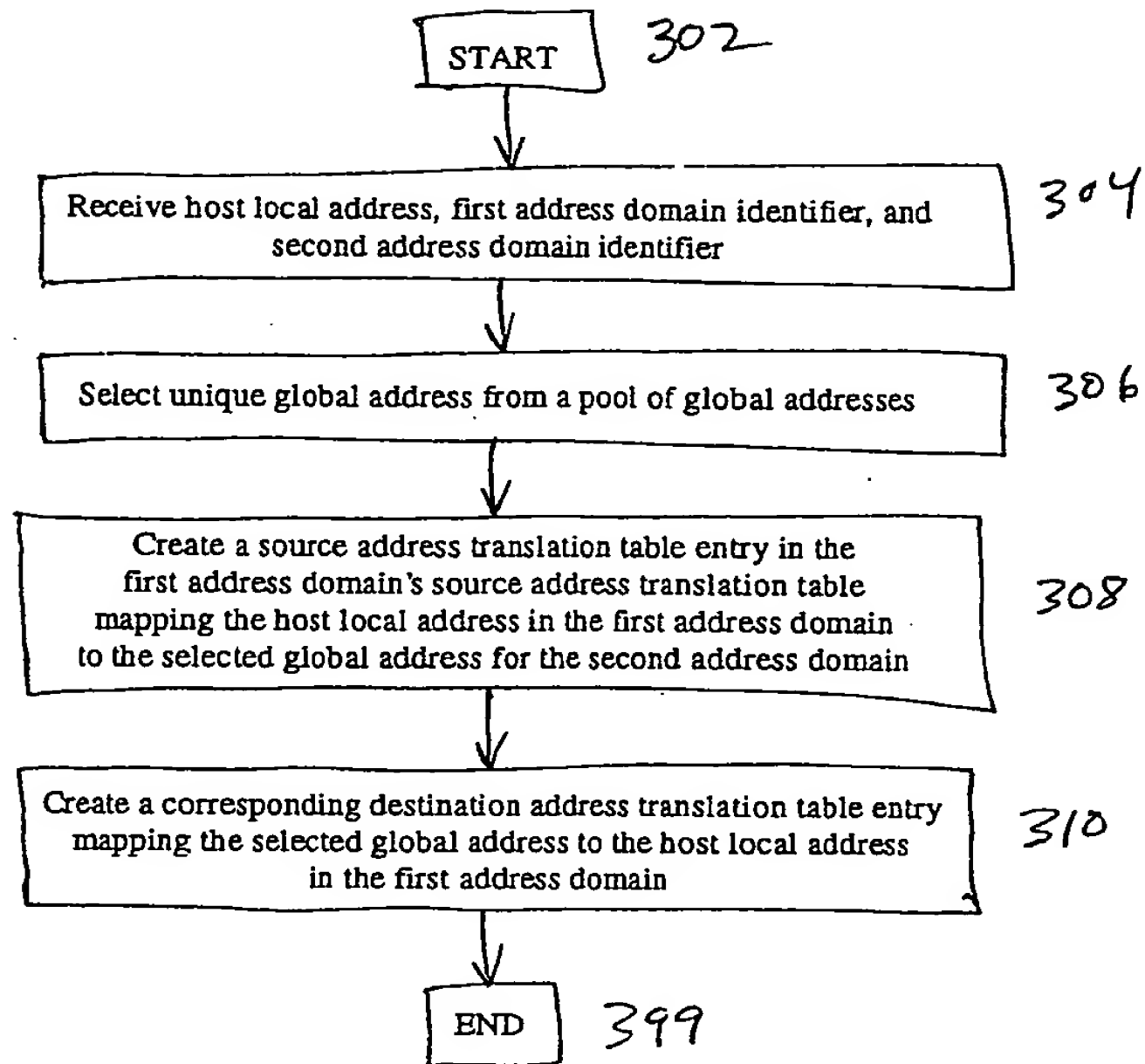


FIG. 3

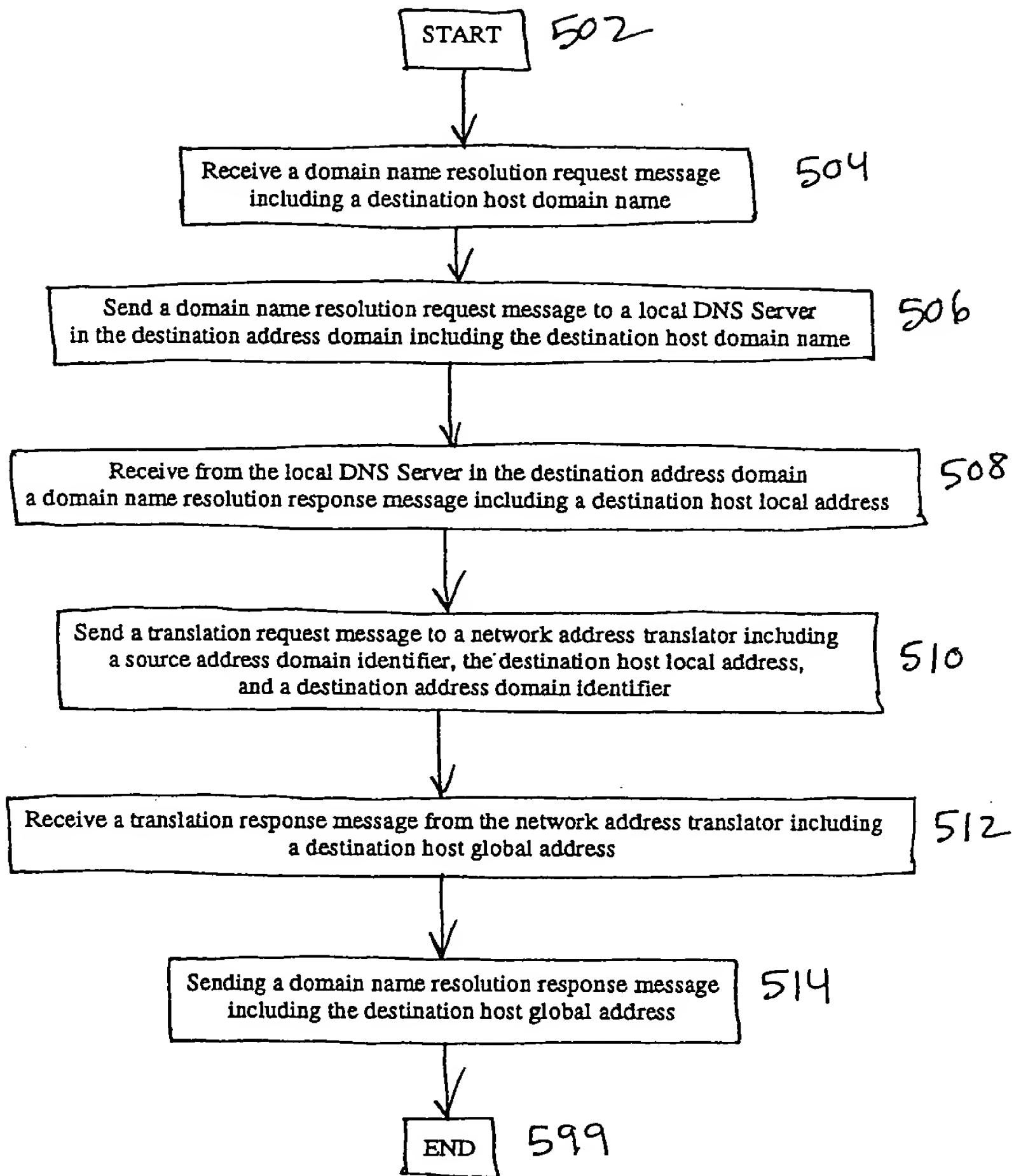


FIG. 5

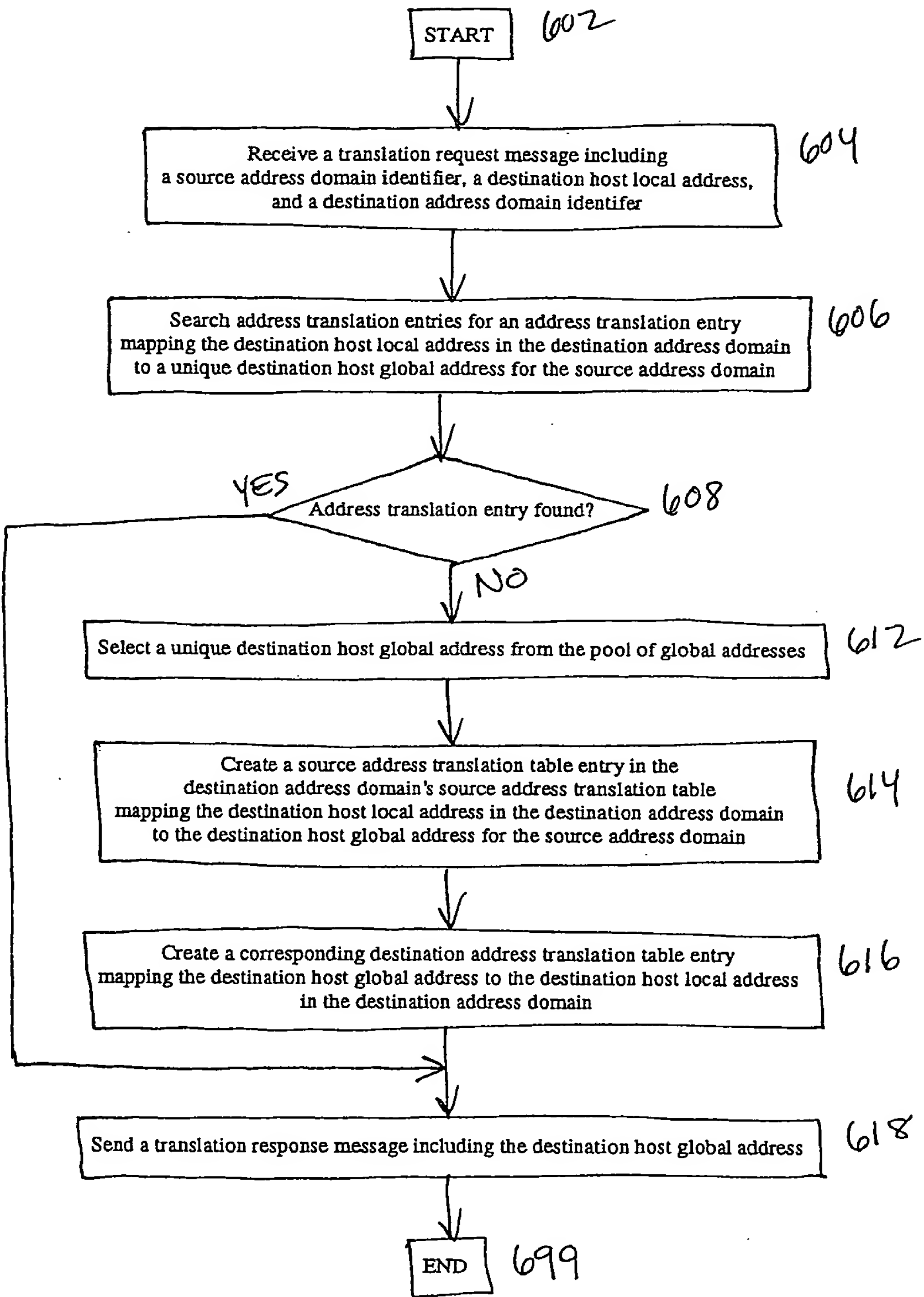


FIG. 6

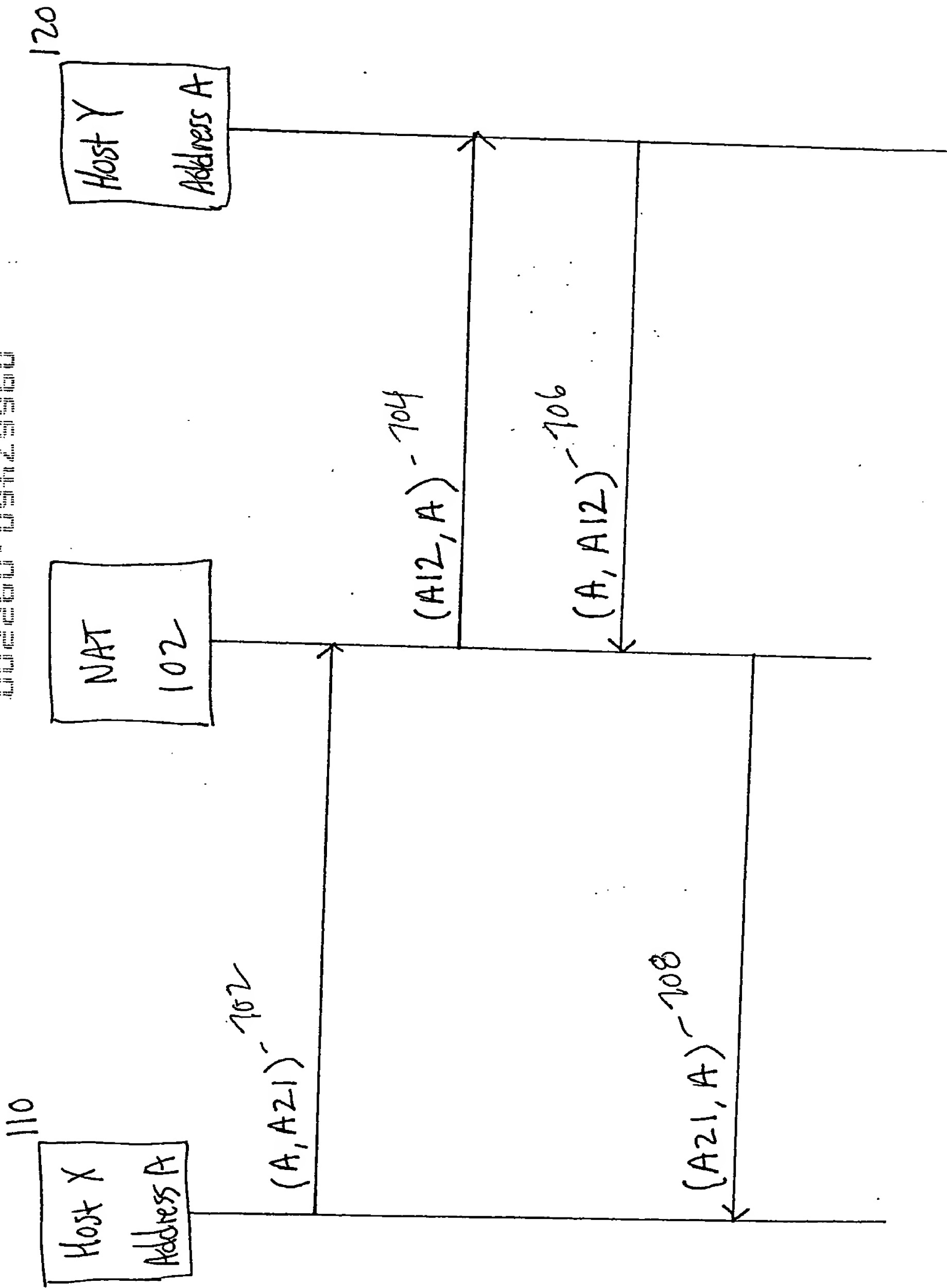


FIG. 7

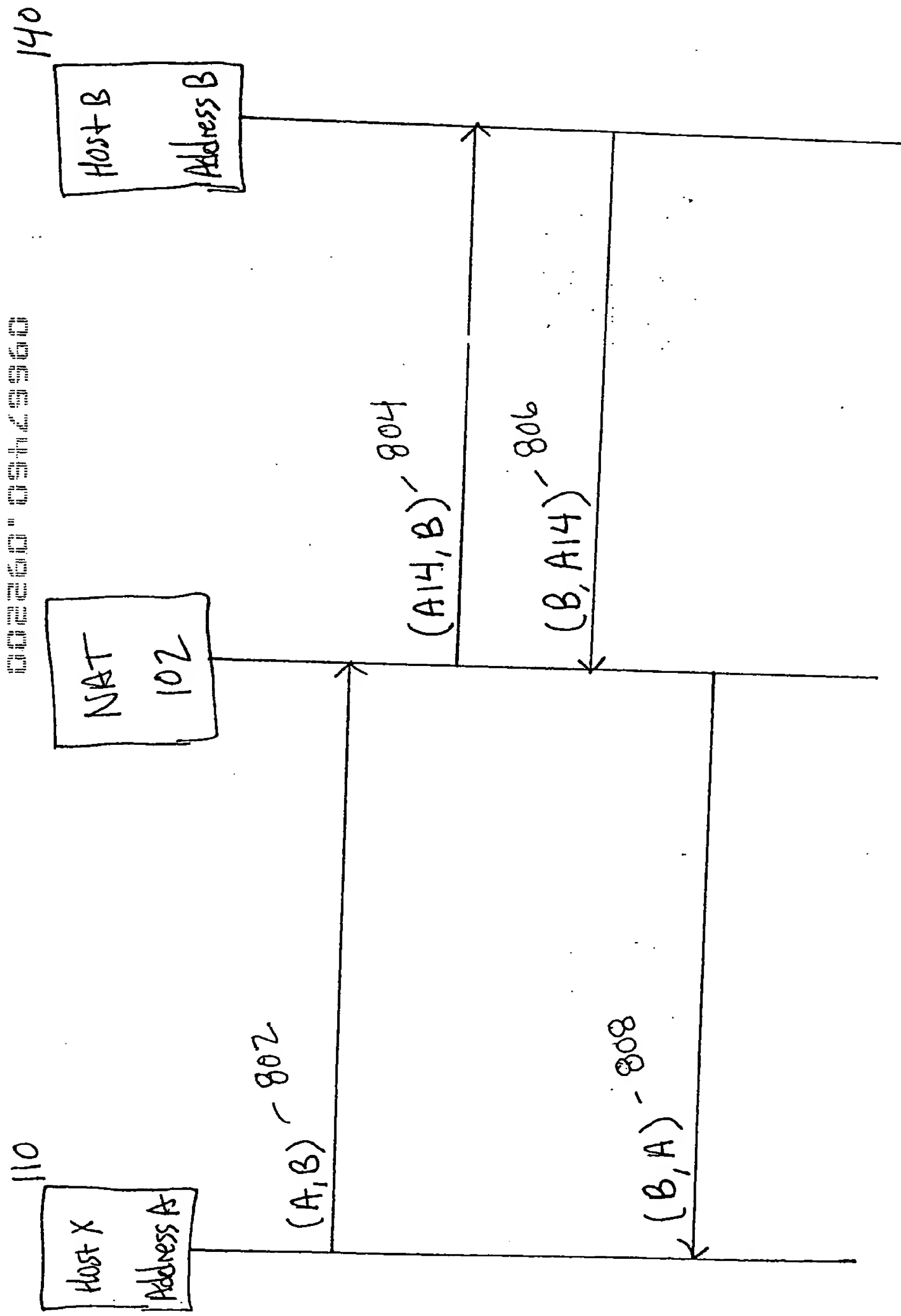


FIG. 8

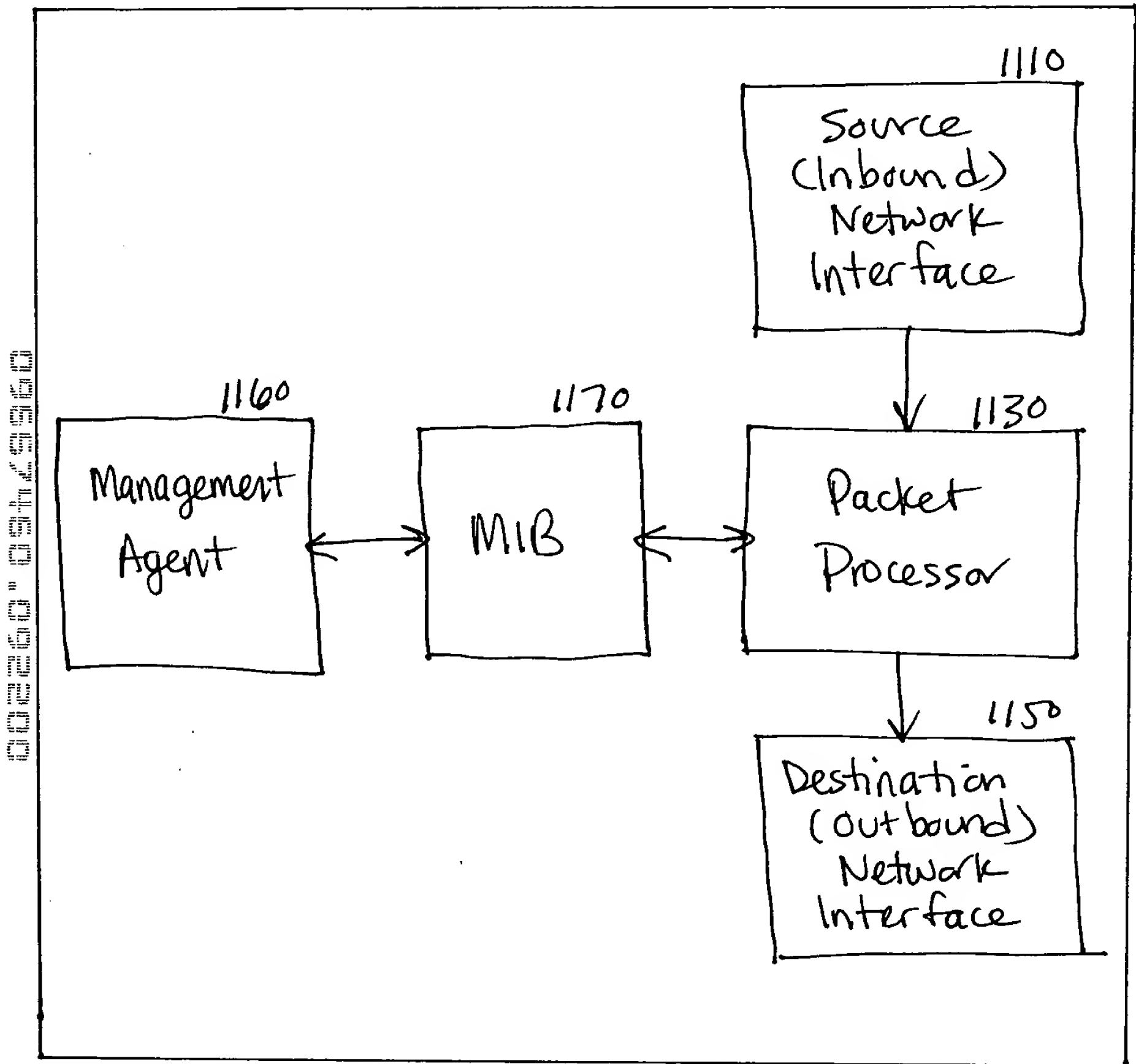


Fig. 11 A

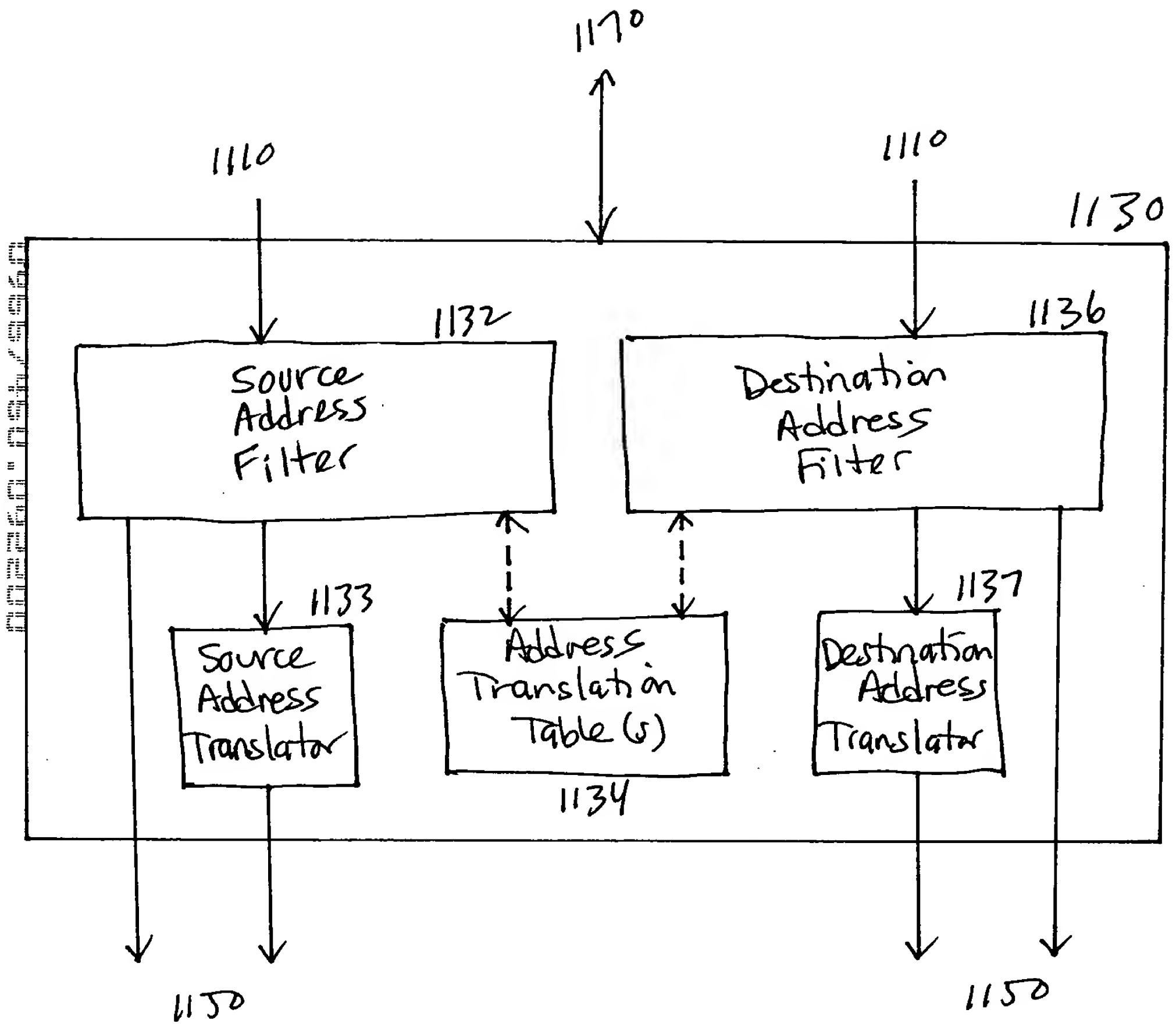


FIG. 11 B

Wellfleet-NAT-MIB DEFINITIONS ::= BEGIN

--

IMPORTS

IpAddress, Counter, Gauge
FROM RFC1155-SMI
OBJECT-TYPE
FROM RFC-1212
DisplayString
FROM RFC1213-MIB
wfNatGroup
FROM Wellfleet-COMMON-MIB;

wfNatIfTable OBJECT-TYPE
SYNTAX SEQUENCE OF WfNatIfEntry
ACCESS not-accessible
STATUS mandatory
DESCRIPTION
"The set of interface that are participating
in the NAT protocol."
::= { wfNatGroup 6 }

wfNatIfEntry OBJECT-TYPE
SYNTAX WfNatIfEntry
ACCESS not-accessible
STATUS mandatory
DESCRIPTION
"An single instance of a NAT interface entry."
INDEX { wfNatIfIpAddress,
wfNatIfCircuit }
::= { wfNatIfTable 1 }

FIG. 12A

WfNatIfEntry ::= SEQUENCE {

 wfNatIfDelete
 INTEGER,
 wfNatIfDisable
 INTEGER,
 wfNatIfIpAddress
 IpAddress,
 wfNatIfCircuit
 INTEGER,
 wfNatIfType
 INTEGER,
 wfNatIfState
 INTEGER,
 wfNatIfTxCount
 Counter,
 wfNatIfRxCount
 Counter,
 wfNatIfPktDropCount
 Counter,
 wfNatIfDomain
 DisplayString
}

wfNatIfDelete OBJECT-TYPE

SYNTAX INTEGER {
 created(1),
 deleted(2)
}

ACCESS read-write

STATUS mandatory

DESCRIPTION

"This variable determines in a NAT Interface has been
configured on the router."

DEFVAL { created }

::= { wfNatIfEntry 1 }

wfNatIfDisable OBJECT-TYPE

SYNTAX INTEGER {
 enabled(1),
 disabled(2)
}

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The NAT interface's administrative status. The value
'enabled' denotes that NAT has been configured
on the interface. The value 'disabled' denotes that
the interface is not running NAT."

DEFVAL { enabled }

::= { wfNatIfEntry 2 }

Fig. 12 B

wfNatIfIpAddress OBJECT-TYPE

SYNTAX IpAddress

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The IP address of this NAT interface."

::= { wfNatIfEntry 3 }

wfNatIfCircuit OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The circuit number of this interface."

::= { wfNatIfEntry 4 }

wfNatIfType OBJECT-TYPE

SYNTAX INTEGER {

uniDirInbound(1),

uniDirOutbound(2),

biDirectional(3)

}

ACCESS read-write

STATUS mandatory

DESCRIPTION

"Denotes the type of NAT interface being defined."

DEFVAL { uniDirInbound }

::= { wfNatIfEntry 5 }

wfNatIfState OBJECT-TYPE

SYNTAX INTEGER {

up(1),

down(2),

init(3)

}

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The state of NAT on this interface"

DEFVAL { down }

::= { wfNatIfEntry 6 }

wfNatIfTxCount OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"Number of packets mapped over this interface from
the local to the global network."

::= { wfNatIfEntry 7 }

FIG. 12C

wfNatIfRxCount OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"Number of packets mapped over this interface from
the global to the local network."

::= { wfNatIfEntry 8 }

wfNatIfPktDropCount OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"Number of packets dropped on this interface"

::= { wfNatIfEntry 9 }

wfNatIfDomain OBJECT-TYPE

SYNTAX DisplayString

ACCESS read-write

STATUS mandatory

DESCRIPTION

"When wfNatIfType is set to biDirectional, specifies
the Address Domain Name that this interface is
connected to, otherwise set to null."

::= { wfNatIfEntry 10 }

FIG. 12 D

wfNatAddressRangeTable OBJECT-TYPE
 SYNTAX SEQUENCE OF WfNatAddressRangeEntry
 ACCESS not-accessible
 STATUS mandatory
 DESCRIPTION
 "Table of address ranges. "
 ::= { wfNatGroup 8 }

wfNatAddressRangeEntry OBJECT-TYPE
 SYNTAX WfNatAddressRangeEntry
 ACCESS not-accessible
 STATUS mandatory
 DESCRIPTION
 "Information describing each of the available address ranges."
 INDEX { wfNatAddressRangeAddress,
 wfNatAddressRangePrefixLen,
 wfNatAddressRangeIndex}
 ::= { wfNatAddressRangeTable 1 }

WfNatAddressRangeEntry ::= SEQUENCE {
 wfNatAddressRangeDelete
 INTEGER,
 wfNatAddressRangeDisable
 INTEGER,
 wfNatAddressRangeAddress
 IpAddress,
 wfNatAddressRangePrefixLen
 INTEGER,
 wfNatAddressRangeIndex
 INTEGER,
 wfNatAddressRangeNto1Addr
 IpAddress,
 wfNatAddressRangeType
 INTEGER,
 wfNatAddressRangeDomain
 DisplayString,
 wfNatAddressRangeTransPool
 INTEGER,
 wfNatAddressRangeStaticNextHop
 IpAddress,
 wfNatAddressRangeUnnumCct
 INTEGER
 }

FIG. 12 E

wfNatAddressRangeNto1Addr OBJECT-TYPE

SYNTAX IpAddress

ACCESS read-write

STATUS mandatory

DESCRIPTION

"When wfNatAddressRangeType is set to srcAddrFilter, specifies the N-to-1 translation address used for this range, otherwise set to zero."

DEFVAL { 0 }

::= { wfNatAddressRangeEntry 6 }

wfNatAddressRangeType OBJECT-TYPE

SYNTAX INTEGER {

sourceAddrFilter(1),

translationPool(2),

domainSrcAddrFilter(3),

domainTransPool(4)

}

ACCESS read-write

STATUS mandatory

DESCRIPTION

"Denotes the type of address range being defined.

sourceAddrFilter: a range of IP addresses used to detect packets which need traditional NAT forwarding.

translationPool: for traditional NAT forwarding, a range of IP addresses from which translation addresses are picked.

domainSrcAddrFilter: a range of IP addresses used to detect domain specific packets which need domain specific NAT forwarding.

domainTransPool: for domain specific NAT forwarding, a range of IP addresses from which domain specific translation addresses are picked."

DEFVAL{ sourceAddrFilter }

::= { wfNatAddressRangeEntry 7 }

wfNatAddressRangeDomain OBJECT-TYPE

SYNTAX DisplayString

ACCESS read-write

STATUS mandatory

DESCRIPTION

"When wfNatAddressRangeType is set to domainSrcAddrFilter or domainTransPool, specifies the Address Domain Name that this address range is valid for, otherwise set to null."

::= { wfNatAddressRangeEntry 8 }

FIG. 12 G

wfNatAddressRangeTransPool OBJECT-TYPE

SYNTAX INTEGER {

inbound(1),

outbound(2)

}

ACCESS read-write

STATUS mandatory

DESCRIPTION

"This attribute is only valid for the wfNatAddressRangeType as domainSrcAddrFilter(3). The value of this attribute decides where to get the translation address for this range from. This could be either the translation Pool defined for the inbound domain or the outbound domain for the packet in question."

DEFVAL{ outbound }

::= { wfNatAddressRangeEntry 9 }

wfNatAddressRangeStaticNextHop OBJECT-TYPE

SYNTAX IpAddress

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The IP address of the next hop of this range entry."

DEFVAL{ 0 }

::= { wfNatAddressRangeEntry 10 }

wfNatAddressRangeUnnumCct OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-write

STATUS mandatory

DESCRIPTION

"This Nat Address range over the unnumbered interface."

DEFVAL{ 0 }

::= { wfNatAddressRangeEntry 11 }

FIG. 12 H

wfNatStaticMappingTable OBJECT-TYPE
 SYNTAX SEQUENCE OF WfNatStaticMappingEntry
 ACCESS not-accessible
 STATUS mandatory
 DESCRIPTION
 "This table creates instances of pre-defined NAT translations."
 ::= { wfNatGroup 9 }

wfNatStaticMappingEntry OBJECT-TYPE
 SYNTAX WfNatStaticMappingEntry
 ACCESS not-accessible
 STATUS mandatory
 DESCRIPTION
 "A single original source address to translated address translation."
 INDEX { wfNatStaticMappingTransAddress,
 wfNatStaticMappingProtocol,
 wfNatStaticMappingTransPort }
 ::= { wfNatStaticMappingTable 1 }

WfNatStaticMappingEntry ::= SEQUENCE {
 wfNatStaticMappingDelete
 INTEGER,
 wfNatStaticMappingDisable
 INTEGER,
 wfNatStaticMappingOrigAddress
 IpAddress,
 wfNatStaticMappingTransAddress
 IpAddress,
 wfNatStaticMappingProtocol
 INTEGER,
 wfNatStaticMappingOrigPort
 INTEGER,
 wfNatStaticMappingTransPort
 INTEGER,
 wfNatStaticMappingInDomain
 DisplayString,
 wfNatStaticMappingOutDomain
 DisplayString,
 wfNatStaticMappingStaticNextHop
 IpAddress,
 wfNatStaticMappingUnnumCct
 INTEGER
 }

Fig. 12 I

wfNatStaticMappingDelete OBJECT-TYPE

SYNTAX INTEGER {
 created(1),
 deleted(2)
}

ACCESS read-write

STATUS mandatory

DESCRIPTION

"Create/Delete parameter. Default is created. Users perform a set operation on this object in order to create/delete a static address translation entry."

DEFVAL { created }

::= { wfNatStaticMappingEntry 1 }

wfNatStaticMappingDisable OBJECT-TYPE

SYNTAX INTEGER {
 enabled(1),
 disabled(2)
}

ACCESS read-write

STATUS mandatory

DESCRIPTION

"Enable/Disable parameter. Default is enabled. Users perform a set operation on this object in order to enable/disable a static address translation entry."

DEFVAL { enabled }

::= { wfNatStaticMappingEntry 2 }

wfNatStaticMappingOrigAddress OBJECT-TYPE

SYNTAX IpAddress

ACCESS read-write

STATUS mandatory

DESCRIPTION

"The original (un-translated) address of the translation."

::= { wfNatStaticMappingEntry 3 }

wfNatStaticMappingTransAddress OBJECT-TYPE

SYNTAX IpAddress

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The translated address of the translation."

::= { wfNatStaticMappingEntry 4 }

wfNatStaticMappingProtocol OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The IP protocol of the translation. Example values are 6 for TCP, and 17 for UDP."

::= { wfNatStaticMappingEntry 5 }

FIG. 12 J

DESCRIPTION

DEFVAL{ 0 }

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405</
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FIG. 12 L

wfNatMappingTable OBJECT-TYPE

SYNTAX SEQUENCE OF WfNatMappingEntry

ACCESS not-accessible

STATUS mandatory

DESCRIPTION

"This table defines the current set of address translations
that are in effect."

::= { wfNatGroup 10 }

wfNatMappingEntry OBJECT-TYPE

SYNTAX WfNatMappingEntry

ACCESS not-accessible

STATUS mandatory

DESCRIPTION

"A single original source address to translated address
translation."

INDEX { wfNatMappingTransAddress,
wfNatMappingProtocol,
wfNatMappingTransPort }

::= { wfNatMappingTable 1 }

WfNatMappingEntry ::= SEQUENCE {

wfNatMappingOrigAddress

IpAddress,

wfNatMappingTransAddress

IpAddress,

wfNatMappingProtocol

INTEGER,

wfNatMappingOrigPort

INTEGER,

wfNatMappingTransPort

INTEGER,

wfNatMappingTxCount

Counter,

wfNatMappingRxCount

Counter,

wfNatMappingTimeout

Counter,

wfNatMappingMode

INTEGER,

wfNatMappingInDomain

DisplayString,

wfNatMappingOutDomain

DisplayString

}

wfNatMappingOrigAddress OBJECT-TYPE

SYNTAX IpAddress

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The original (un-translated) address of the translation."

::= { wfNatMappingEntry 1 }

FIG. 12 M

wfNatMappingTransAddress OBJECT-TYPE

SYNTAX IpAddress

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The translated address of the translation."

::= { wfNatMappingEntry 2 }

wfNatMappingProtocol OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The IP protocol of the translation."

::= { wfNatMappingEntry 3 }

wfNatMappingOrigPort OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS mandatory

DESCRIPTION

"When the translation is for a TCP connection, this denotes the original TCP port number."

::= { wfNatMappingEntry 4 }

wfNatMappingTransPort OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS mandatory

DESCRIPTION

"When the translation is for a TCP connection, this denotes the translated TCP port number."

::= { wfNatMappingEntry 5 }

wfNatMappingTxCount OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"Number of packets forwarded by NAT using this translation."

::= { wfNatMappingEntry 6 }

wfNatMappingRxCount OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"Number of packets received by NAT using this translation."

::= { wfNatMappingEntry 7 }

FIG. 12 N

wfNatMappingTimeout OBJECT-TYPE

SYNTAX Counter

ACCESS read-only

STATUS mandatory

DESCRIPTION

"The time in seconds since this translation entry was last used.

This is used to age out translation entries."

::= { wfNatMappingEntry 8 }

wfNatMappingMode OBJECT-TYPE

SYNTAX INTEGER

ACCESS read-only

STATUS mandatory

DESCRIPTION

"This is the bit mask representing the type of this translation.

Each bit specifies the type as follows:

The translation could be only ONE of the following three...

0x01000000 - This translation is originated on this router,
i.e. this NAT router performed the translation.

0x02000000 - This translation is learned from the peer,
i.e. this translation was learned from the
peer using NAT Synchronization feature.

0x04000000 - This translation is owned,
i.e. it was originally learned from peer, but
this router received traffic which used this
translation.

...and only ONE of the following three.

0x00000010 - This translation is the STATIC translation.

0x00000020 - This translation is Dynamic(1 to 1) translation.

0x00000040 - This translation is N to 1 translation."

DEFVAL { 0 }

::= { wfNatMappingEntry 9 }

wfNatMappingInDomain OBJECT-TYPE

SYNTAX DisplayString

ACCESS read-only

STATUS mandatory

DESCRIPTION

"This attribute specifies the name of the address domain that this
source translation shall be valid for. In other words, this
translation shall only be valid for source addresses coming
inbound from this domain."

::= { wfNatMappingEntry 10 }

Fig. 12 0

STATUS mandatory

"This attribute specifies the name of the outbound address domain that this translation will be valid for. In other words, this translation only applies to translations that will be forwarded out into this address domain."

```
 ::= { wfNatMappingEntry 11 }
```

END -- Wellfleet-NPT-MIB

FIG. 12 P

1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399</
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